

WHAT IS CLAIMED IS:

1. A flowmeter, comprising:

a primary flow sensor;
sensor electronics connected to said primary flow sensor for providing a measurement signal;
a signal processing unit connected to said sensor electronics for determining the flow, said signal processing unit being set to produce a signal proportional to the flowrate or the square of the flowrate; and
an output signal generator for generating an output signal proportional to the signal of the signal processing unit.

2. The flowmeter according to claim 1, further comprising:

a communication interface, allowing a user to set the output signal to be proportional to the flowrate or the square of the flowrate.

3. The flowmeter according to claim 1, wherein:

said primary flow sensor includes two ultrasonic transducers serving as transmitters and receivers.

4. The flowmeter according to claim 1, wherein:

said output signal generator comprises part of said signal processing unit.